

Title (en)

Method and apparatus for aligning channel sections with an adjustable alignment key

Title (de)

Verfahren und Vorrichtung zum Ausrichten von Kanalelementen mit verstellbarem Ausrichtschlüssel

Title (fr)

Méthode et appareil pour positionner des éléments de canal avec une clef d'alignement réglable

Publication

**EP 1437447 A3 20061206 (EN)**

Application

**EP 04000330 A 20040109**

Priority

US 34126203 A 20030113

Abstract (en)

[origin: EP1437447A2] A channel system for forming a trench is disclosed that includes a number of precast drainage channel sections and one or more alignment keys for aligning and interlocking adjacent channel sections. Each alignment key includes a base shaped for laterally bridging across a predetermined exterior portion of adjacent bottom walls of the adjacent channel sections. The alignment key also includes first and second opposed, inwardly facing jaw members shaped for longitudinally bridging across a predetermined exterior portion of adjacent first and second sidewalls, respectively, of the adjacent channel sections. Each pair of the jaw members can be carried by a respective base, and can be positioned in a lateral and longitudinal direction relative to the respective base to thereby substantially align and interlock the adjacent channel sections. [origin: EP1437447A2] The key (30) has a base (24) laterally bridging across a predetermined exterior portion of adjacent bottom walls (14) of adjacent channel sections (12). Jaw units (32) longitudinally bridge across a predetermined exterior portion of adjacent sidewalls (16), respectively. Each jaw unit is positioned in a lateral and a longitudinal direction with respect to the base to substantially align and interlock the channel sections. Each jaw unit is carried out by the base. Independent claims are also included for the following: (a) a channel system (b) a method of forming a channel having longitudinally extending channel sections.

IPC 8 full level

**E03F 3/04** (2006.01); **E01C 11/22** (2006.01)

CPC (source: EP US)

**E01C 11/227** (2013.01 - EP US); **E03F 3/046** (2013.01 - EP US)

Citation (search report)

- [DXY] US 5735637 A 19980407 - GUNTER CHARLES E [US]
- [DYA] US 5226748 A 19930713 - BAERENWALD JOERG R [US], et al
- [XA] US 6494642 B1 20021217 - DALY TIMOTHY J [US]
- [DA] US 4498807 A 19850212 - KIRKPATRICK LARRY E [US], et al
- [A] US 4878782 A 19891107 - BEATTIE THOMAS B [US], et al
- [A] CH 692788 A5 20021031 - CPK BAUTECHNIK AG [CH]
- [A] EP 0677622 A2 19951018 - WILHELM HAFNER GMBH [DE]
- [A] CH 681313 A5 19930226 - HESTAG BAUELEMENTE

Cited by

CN109944133A; CN110725283A; EP3388577A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

**EP 1437447 A2 20040714**; **EP 1437447 A3 20061206**; **EP 1437447 B1 20190807**; US 2004136785 A1 20040715; US 6860678 B2 20050301

DOCDB simple family (application)

**EP 04000330 A 20040109**; US 34126203 A 20030113